

10/581223  
AP3 Rec'd PCT/PTO 01 JUN 2005

Docket No.: 12810-00260-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Thomas Ehrhardt et al.

Application No.: National Phase of  
PCT/EP2004/013560

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: 2-METHYL-6-SOLANYLBENZOQUINONE  
METHYLTRANSFERASE AS TARGET FOR  
HERBICIDES

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Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

The documents listed on the attached SB/08 are cited in the application or are the documents cited in the International Search Report during the prosecution of international application no. PCT/EP2004/013560, which corresponds to the above referenced application. In accordance with 37 CFR 1.97(b)(2), Applicants hereby submit these documents for the

Application No.: National Phase of PCT/EP2004/013560

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Examiner's consideration. A copy of each document required under 37 CFR 1.98(a)(2) is enclosed.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

Applicants believe no fee is due with this response. However, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 12810-00260-US from which the undersigned is authorized to draw.

Respectfully submitted,

By 

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10/581223

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Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	National Phase of PCT/EP2004/013560
				Filing Date	Concurrently Herewith
				First Named Inventor	Thomas Ehrhardt
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	12810-00260-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	BA	WO-01/04330	01-18-2001	Sungene GmbH & Co. KGAA		See CA 2 378 657 A1
	BB	CA-2 378 657 A1	01-18-2001	Sungene GmbH & Co. KGAA		
	BC	WO-03/034812 A2	05-01-2003	Monsanto Technology LLC		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	BLOCK, M. A., et al., "N. tabacum mRNA for 37kDa chloroplast inner envelope membrane polypeptide", Database EMBL, Accession No. X94968, 06/30/1996.	
	CB	MOTOHASHI, R., et al., "Arabidopsis thaliana mRNA for APG1, complete cds.", Database EMBL, Accession No. AB054257, 07/17/2001.	
	CC	MOTOHASHI, R., et al., "AGP1", Database EMBL, Accession No. Q94IE2, 12/01/2001.	
	CD	BLOCK, M. A., et al., "37kDa chloroplast inner envelope membrane polypeptide", Database EMBL, Accession No. Q40501, 11/01/1996.	
	CE	ABELL, Lynn M., "Biochemical Approaches to Herbicide Discovery: Advances in Enzyme Target Identification and Inhibitor Design", Weed Science 44 (1996), pp. 734-742.	
	CF	CHENG, Zigang, et al., "Highly Divergent Methyltransferases Catalyze a Conserved Reaction in Tocopherol and Plastoquinone Synthesis in Cyanobacteria and Photosynthetic Eukaryotes", The Plant Cell 15 (2003), pp. 2343-2356.	
	CG	MOTOHASHI, Reiko, et al., "Functional Analysis of the 37 kDa Inner Envelope Membrane Polypeptide in Chloroplast Biogenesis using a Ds-tagged Arabidopsis Pale-Green Mutant", The Plant Journal 34 (2003), pp. 719-731.	
	CH	NORRIS, Susan R., et al., "Genetic Dissection of Carotenoid Synthesis in Arabidopsis Defines Plastoquinone as an Essential Component of Phytoene Desaturation", The Plant Cell 7 (1995), pp. 2139-2149.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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